

PROJECT 10073 RECORD CARD

1. DATE <u>29 Mar 58</u>	2. LOCATION <u>Yukon, Canada, Alaska area</u>		12. CONCLUSIONS <input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft <input checked="" type="checkbox"/> Was Astronomical Meteor <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical <input type="checkbox"/> Other _____ <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown
3. DATE-TIME GROUP Local <u>1227</u> GMT <u>29/2027Z</u>	4. TYPE OF OBSERVATION <input checked="" type="checkbox"/> Ground-Visual <input type="checkbox"/> Ground-Radar <input checked="" type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar		
5. PHOTOS <input type="checkbox"/> Yes <input type="checkbox"/> No	6. SOURCE <u>Military & Civilian</u>		
7. LENGTH OF OBSERVATION <u>few secs</u>	8. NUMBER OF OBJECTS <u>Several</u>	COURSE <u>Variable</u>	
10. BRIEF SUMMARY OF SIGHTING <u>Several A/C crews & ground observers saw a meteor-like obj for a very short duration fm several locations.</u>		11. COMMENTS <u>It appears in all cases, a flaming obj was sighted almost simultaneously by persons within a 355 mile radius. This indicates the obj was at a very high alt. On basis of info rptd, obj was a fireball(bolide). Evaluated meteor by Dr. C.T. Elvey of Univ Alaska at collection point.</u>	

FLASH REPORT

Memo for Capt. Gregory: *AFCIN-4E4*

Reference is made to the telephone call from Capt. Nelson, SDO, Saturday night, 29 March 58, regarding the report of 4 sightings received from Major Leonard, NORAD. The call was made because Major Leonard felt that the sightings may have been Sputnik II. Capt. Miatech came to the Center and analyzed them from the standpoint of predicted Sputnik II tracks and advised Major Leonard by phone that he did not believe the sightings to be the Soviet satellite. He requested that NORAD re-interrogate the reporters of these sightings and forward the additional information to ATIC as normal UFO reports.

The data taken from Major Leonard by me are as follows:

- Sighting 1 - Flaming object vicinity of Northway, Alaska; heading 90^x degrees; 10 degrees above the horizon; time: 292025Z - 292029Z.
- Sighting 2 - Flaming object reported by acft 40 miles southeast of Haines, Alaska; 30 degrees above the horizon; time: 292027Z.
- Sighting 3 - Vertical fire at 30,000 ft reported by ~~aircraft~~ ^{over} White Horse, Yukon and the tower operator there; time: 292027Z.
- Sighting 4 - Flaming object reported by aircraft vicinity of Watson Lake, Yukon; time: 292027Z.

These were all the data Major Leonard had from the persons reporting the sightings as of the time he talked to me.

H. D. Nelson
H. D. NELSON
Capt, USAF
Staff Duty Officer

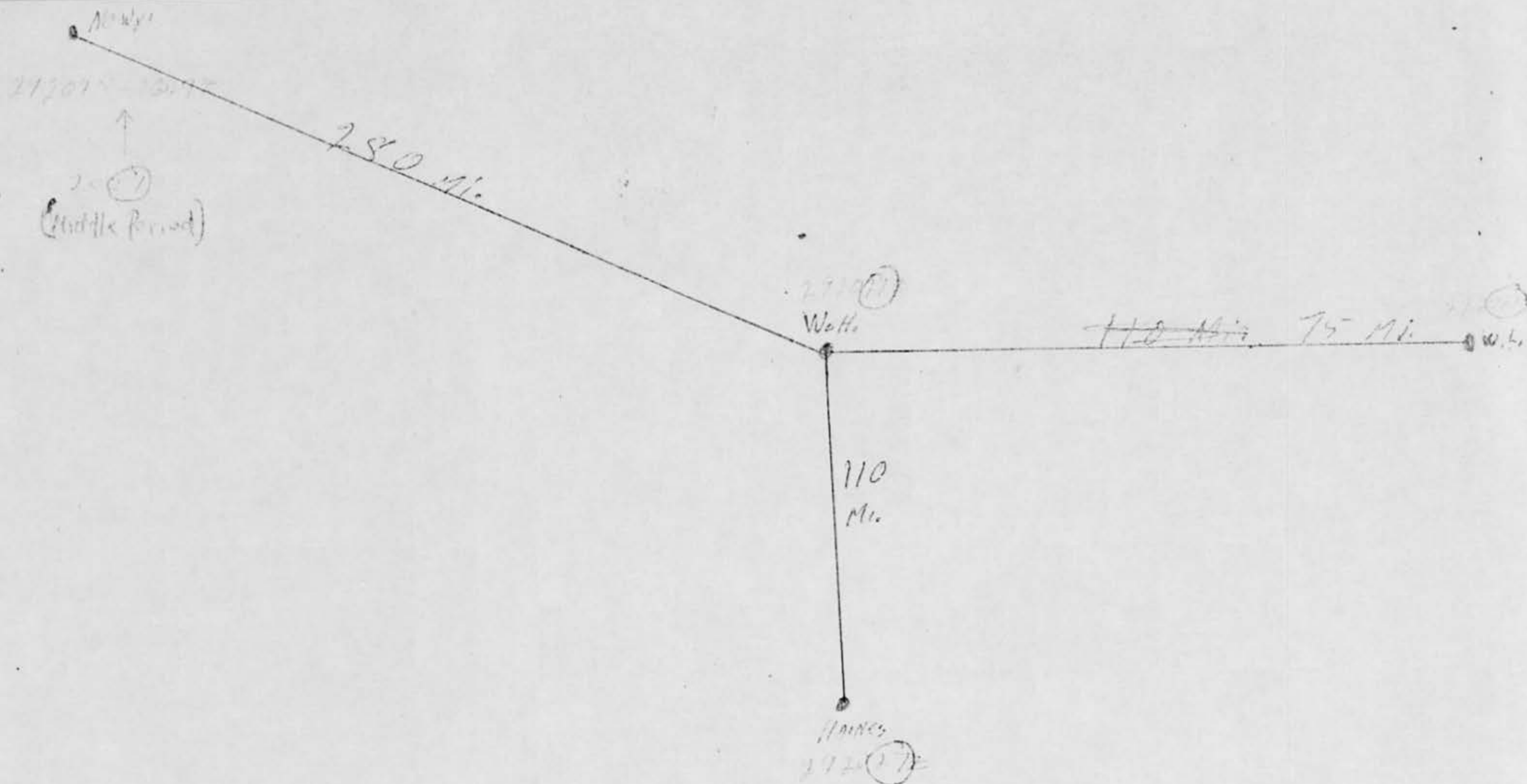
Flash Evaluation, pending receipt of complete report:

1. It appears that, in all cases, there was a flaming object.
2. The object was sighted almost simultaneously by persons within a 355 mile area at 2027Z! The vehicles that the object was very high ^{approx} and moving somewhat in the order of 16-17 miles per second.

3. Allowing for the known tendency and inability of many persons to closely estimate directions, elevations, angles, etc.

It appears that the object (on the basis of info here) was traveling generally E to W.

Conclusions: On basis of above, and from data to given, obj. was a bolide.



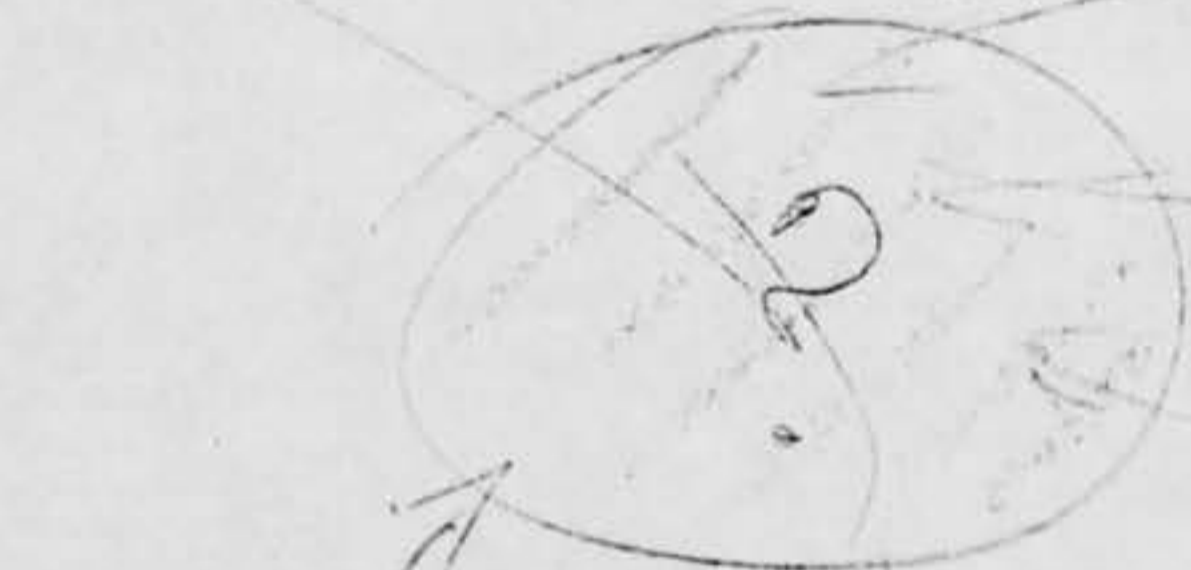
Brief Summary

1. Observed almost simultaneously at 2027 by number of persons within a 350 mile area
2. Majority state object flaming, abrupt brilliant.
3. Lighting duration averages about 3-7 seconds.*
- 4.

* This would indicate a variety of spectral or it indicates

13T 01/2/20

Probable
area of fall
in column



See Air Chart #117

(Wrangell Mountains)

CL - (Area NC-PC,
NB + PB)

(See * Below) Direction of flight (monument - direction)
 1st Sighting - (a/c) Generally North to South (2027)
 — approx 100 degrees (East) *
 (E)

2nd Sighting - (a/c) Direction of Travel
 Not known - but seen in
 vertical dive at approx 350
 from Hanes Radar Beacon (W)

3rd Sighting (a/c) (Miles) 305° — (30 approx variation) = 275° True
 (Seen in this direction - not a direction
 of travel) Seen in approx. vertical
 dive.

4th Sighting - (a/c) - Observed in W. to S.W. direction -
 Descending on arc from upper right
 to lower left (W)

5th Sighting (a/c) (approx. 100 miles)
 (approx. 100 miles) - Western side of coast - observed
 slightly right of course (i.e. W. side)
 - vertical dive (W)

6th Sighting (a/c) (approx. 100 miles) - Observed in front of
 a/c - vertical
 descent. (SW)
 (approx. 100 miles) - observed in SW -
 in vertical descent.
 (SW)

* First observer was considerably to the West of the other
 observers who noted obj. in the West. This indicates obj. came
 from a low arc between the two. Prob. NA-NB-PC-PB-Quadrant



Protons
(10-20 Miles per second)

Miles per second

Lighter (electron)
at the same

60,000 - 80,000
ft

(heavier)

at the same

SPINNING - or vibrating from light
(6-8 miles per second)



JOINT MESSAGEFORM

2017 729.2
SECURITY CLASSIFICATION

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

ENCODED

Initials *AK*Checked By *AK*

UNCLASSIFIED

08511

PRECEDENCE		TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION	PRIORITY	BOOK	MULTI	SINGLE		INT-1	
INFO	ROUTINE		X		AF	53030	
FROM:							SPECIAL INSTRUCTIONS

COMDR, ATIC

TO:

HQ AAC, ELMENDORF AFB, ALASKA *JKDAG*

INFO: COMDR, ADC, ENT AFB, COLO SPGS, COLO (AIR MAIL)

ACS/INT, HQ USAF, WASH D. C. (AIR MAIL)

COMDR, 111TH AD, LADD AFB, ALASKA (AIR MAIL)

[REDACTED]/FROM: AFCIN-4E4 *IC-4040C*

Ref your report of unusual meteor-like object observed by numerous A/C and ground observers in general area between Tazlina, Alaska and Watson Lake, Canada. Cite TT Msg INT-1, 53030, Sec 1 & 2, dtd 30 Mar 58. Taking into consideration the known tendency and inability of many observers to give precise azimuths, elevations, directions and other angular measurements, particularly if started or due to suddenness of phenomena, the following are considered firm: (a) Object was seen practically simultaneously at 2027Z by all observers located within a 250 mile area, (b) All

UNCLASSIFIED

T58-8865

Page 1 of 3 pages

Copy 1 of 6 copies

07 1700
DATE 2 TIME 1200
MONTH APR YEAR 58

JOINT MESSAGEFORM

SECURITY CLASSIFICATION

SPACE BELOW RESERVED FOR COMMUNICATION

UNCLASSIFIED

PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION	BOOK	MULTI	SINGLE			
INFO						

FROM:

COMDR, ATIC

TO:

HQ, AAC, ELEMENDORF AFB, ALASKA

observers except first, report object in W to SW, and generally in descent. First observer considerably West of others reported object in East. This places possible locale of impact, if any, in GEOREF: area, NC-NB and DC-PB, ~~A-100~~ Chart No. 117, (c) Characteristics, descriptions and other data given indicates object was true bolide, a specie of meteorite called "fireball", (d) This is further confirmed by the fact the velocity appears to be considerably above that of any artificial satellite re-entry velocity, derived from the average sighting directions, a fact also commented in your msg., (e) Other significant clues for "fireballs" seen in daylight: trail of white smoke; change of colors during flight; crackling and whistling noises, and explosion into fragments. (Ref Dr. C.P. Olivier's work on fireballs, U. of Penn., Rpt Nr. 102). On the basis of the brief information submitted, there is no compelling reason to conclude

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T58-8865
Page 2 of 3

SPECIAL INSTRUCTIONS

DATE	TIME
2	1200
MONTH	YEAR
APR	58

JOINT MESSAGEFORM

SECURITY CLASSIFICATION

SPACE BELOW RESERVED FOR COMMUNICATIONS

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PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION	BOOK	MULTI	SINGLE			
INFO						

FROM:

COMDR, ATIC

SPECIAL INSTRUCTIONS

TO:

HQ AAC, ELMENDORF AFB, ALASKA

~~that~~ that the object was other than a fireball,
similar to the one observed throughout seven (7) western
states simultaneously on 10 Oct 57.

COORDINATION:

AFCIN-4E4

Dr. Miley

DATE 2 Apr. 58

AFCIN-4E4

Dr. Robinson

DATE

AFCIN-4E

Mr. Post

DATE 4/3/58

AFCIN-4X1

Mr. Arcier

DATE 4 Apr. 58

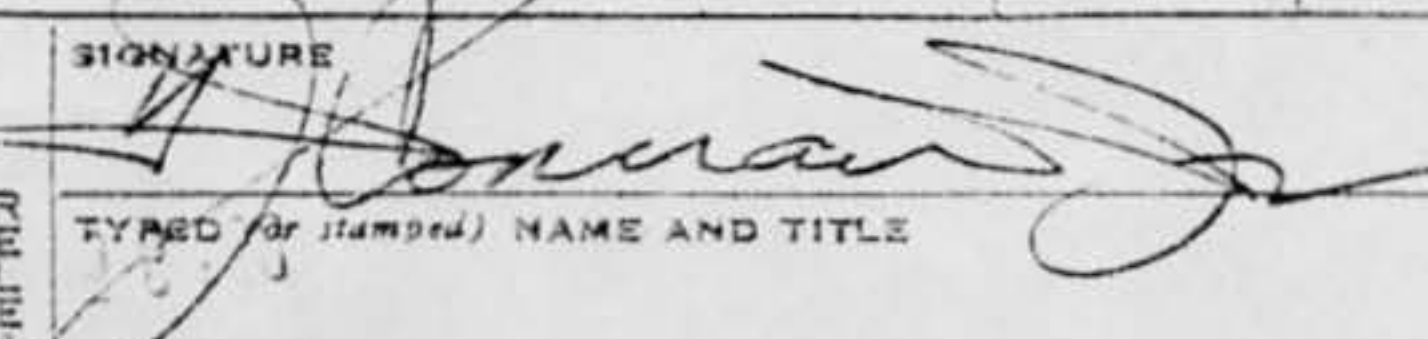
T58-8865

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Copy 1 of 6 copies

DATE	TIME
2	1200
MONTH	YEAR
APR	58

UNCLASSIFIED

SYMBOL		SIGNATURE	
AFCIN-4E4			
TYPED NAME AND TITLE (Signature: George T. Gregory)		TYPED (or stamped) NAME AND TITLE	
GEORGE T. GREGORY, CAPT., USAF		T. J. CONNAIR, JR.	
PHONE 6-9216	PAGE 3	Major, USAF	
SECURITY CLASSIFICATION		Administrative Officer	

WALL THREE RJKLAG 20
WAS FROM UPPER RIGHT TO LOWER LEFT, ALMOST VERTICAL PATH. ORIGINALLY
STREAK OF SMOKE AND YELLOWISH FLAME, THEN BURST IN BRIGHT BLUE BALL.
OBJECT APPEARED BETWEEN 20 AND 10 DEGREES ABOVE HORIZON. VISIBLE
TO TWO SECONDS. PART SIX: CAPT HUBERT E CHANLY, 441444, 774
TOP GUNNER SQUADRON, APOCPE, CNLA, PRESENTLY EILSON AFB, ALASKA,
WAS AT 21,000 FEET, POSITION DLIA 1921, 40 TO 45 MILES BEHIND
CONTACT IN PART FIVE ABOVE, ALONG WITH COPILOT, ENGINEER AND
LIGHTER, SAW OBJECT LIKE OBJECT ABOUT 5 DEGREES RIGHT OF TRUE
WAS TO WHITERHORSE RADIO RANGE, ABOUT 10 DEGREES RIGHT OF CONTACT
TO 10 DEGREES AHEAD. OBJECT TRAVELLING ALMOST VERTICALLY FROM 20 DEGREES
TO 10 DEGREES ABOVE HORIZON. YELLOWISH STREAK ENDING IN WHAT
APPEARED TO BE BLUISH EXPLOSION, LIKE ARC WELDING LIGHT. OBJECT
WAS NOTICED, BUT NEVER SAW ONE IN DAYLIGHT BEFORE. VISIBLE ONE
TO TWO SECONDS. PART SEVEN: [REDACTED], IN AIR COMMANDER
WAS ON SAFETY AIRWAYS, ANCHORAGE, ALASKA ON AMED 2 AIRWAYS,
WAS AT 21,000 FEET, POSITION DLIA 2032, WAS HEADING 240 DEGREES,
WAS FALLING IN FRONT OF HIM COMING TOWARDS HIM, OBJECT
WAS INTO OVERCAST AT 0323 [REDACTED] 20 MILES AHEAD OF
WAS VERTICAL DESCENT. VISIBLE [REDACTED] TO TWO SECONDS. PART EIGHT:
CONTROL TOWER CLAS 5344 SIGHTED BRILLIANT WHITE OBJECT,

20/2729Z

[REDACTED]

1-22
1-11
RJEDSO JEDSO RJEDLN
RJEDSO
RJEDSO-T-RJEDSO RJEDLN

1-22
RJEDSO/COMDR ATIC ORIGHT PATTERSON AFB OHIO
RJEDLN/COMDR ALC ENT AFB COLO SPRINGS COLO
RJEDSO/ACS/INT HQ USAF WASH DC
RJEDSO/OFFICE OF INFORMATION SERVICES HQ USAF WASH DC
RJEDSO/COMDR 11TH AB LADD AFB ALASKA

174E4
3-4AZ
4-4XZC
RED

[REDACTED] /FROM INT-1 53 25 3.
MESSAGE IS IN 16 PARTS. SECTION 1 OF 2.
PART ONE: A METEOR-LIKE OBJECT WAS SEEN OR HEARD BY AT LEAST
OBSERVERS AT 2027/29Z IN EASTERN ALASKA AND THE GENERAL AREA
WITNESS, YUKON TERRITORY, CANADA. ALASKAN AIR COMMAND AND
GEOLOGICAL INSTITUTE, UNIVERSITY OF ALASKA EVALUATE THE
OBJECT AS AN UNUSUALLY LARGE METEOR. THOUGH THIS IS A PRELIMINARY
EVALUATION REMOVES THE REPORTS FROM UFO CATEGORY (AFM 2-2-2),
INTEREST IN POSSIBLE ENTRY OF EARTH SATELLITE INTO
ATMOSPHERE PROMPTS SUBMISSION OF FOLLOWING REPORTS FOR ANALYSIS

Classification Cancelled
OR Changed to UNCL
Auth: AFR 205-10
Para 2-176(i)
By: Quintanilla

PARAGRAPH NOT RECORDED EXCEPT FOR TO
CATEGORY 3 ENCLOSURE. IF CA 1. REMOVE
INTERNAL REFERENCES BY DATE AND GRO
10 DEC 1951 1 1 1

WIND, EAST FOC: [REDACTED], SMOKE/TRACE, FLYING CLOUDS
WIND, WASTECLOUD 2,000 FEET, POSITION 0110 1000, SIGHTED 2000
WIND FALLING TO 1000 SOUTH APPROXIMATELY 10 TO 15 DEGREES FROM
VERTICAL. NO VAPOR TRAIL. DIRECTION APPROXIMATELY 400 DEGREES

VEHICLE TWO SECONDS. PART THREE: [REDACTED], FLYING
APPROACH TO NAIKUS, ALASKA, POSITION ON R 5451, OBSERVED BLINDING
[REDACTED] OF 300 SECONDS FROM NAIKUS PACIFIC BEACH. APPEARED
OUT TO THREE ABOVE HORIZON TRAVELLING VERTICALLY DOWN AND
[REDACTED] IS 0 SECONDS ABOVE HORIZON, VEHICLE ONE TO TWO SECONDS
[REDACTED] PART. [REDACTED] AND COPILOT [REDACTED]

MOVING TAIL OF WHITE SMOKE. SPENT SIMILAR TO COMET.

THIS REPORT WAS AT 10:00 PM. SUBJECT 1 SIGHTED TWO OBJECTS. PART FIVE: 774 TROOP CARRIER, POSITION, ALASKA, NO. 25, 300 FEET. POSITION DELTA 17, SIGHTED OBJECT DIRECTLY IN FRONT-- 3 OBJECTS TO RIGHT OF COURSE TO WITHIN 1000 YD. GENTLE-LEVEL-

See # R. Oliver's

Rept No. 1021 on

Fireballs and Meteor Trails

AT FOUR P.M. BY
SPECIALLY REDDISH, AT FIRST LIKE WILDING TOPCH, TO 214 DEGREES
MAGNETIC, FALLING UPPER RIGHT TO LOWER LEFT 15 DEGREES FROM VERTICAL.
WHITE VAPOR TRAIL VISIBLE FOR ABOUT 3 MINUTES. PART NINE:
TELEPHONE OPERATOR AT CANYON GREEN
REPORTED THAT SOME SEVEN PEOPLE AT HIS LOCATION REPORTED HEARING
SERIES OF SNAP REPORTS LASTING TWO TO FIVE SECONDS, LIKE
CRACKS, AT ABOUT 2030Z, AND SAW VAPOR TRAIL AND PUFF OF
SMOKE TO N AND NE. SMOKE WAS ABOUT 45 DEGREES ABOVE HORIZON
WAS IDENTIFIED, REPORTED BY WAPCON.
PEOPLE AT CHAMPAGNE, CLPA 3248, REPORTED HEARING WHISTLING
SOUNDS LIKE JET, BUT FASTER, GOING EAST TO WEST AND ALSO REPORTED
HEARING SERIES OF EXPLOSIONS. SOMETHING SIGHTED. OCCURRED ABOUT
2030Z. PART ELEVEN: UNIDENTIFIED, REPORTED BY WAPCON. PEOPLE
AT LONGMAN BRIDGE, CLLB 1340, REPORTED ORANGE TO BRIGHT RED
OBJECT VISIBLE ONE SECOND, 35 DEGREES ABOVE HORIZON AT 215
DEGREES TRUE. SMOKE SEEN FOR FOUR TO FIVE MINUTES AFTERWARDS.
PART TWELVE: OBSERVER ON 200 TO 400 FOOT HILL ABOUT FOUR MILES
S.W. OF WITWIK, CLNB 3342, HEARD EXPLOSION TWO TO FIVE SECONDS
AFTER HEARING WHISTLING NOISES. DURATION ABOUT TEN SECONDS.
MIGHT HAVE BEEN BOOMS. SOUNDED LIKE NORTHERLY DIRECTION. TO

Duration

WAS FIVE RJKDAG 20
USUAL SIGHTING. OCCURRED AT 2330Z. PART THIRTEEN: AISHANIK,
AND 3235. PEOPLE REPORTED TO HAVE HEARD EXPLOSIONS "NEARBY"
AT 2327Z, DURATION ONE TO THREE SECONDS. NO VISIBLE EVIDENCE.
ANOTHER REPORT STATES PEOPLE THIS LOCATION HEARD WHISTLING
SOUNDS TWO TO THREE SECONDS ABOUT 2330Z. THIRD REPORT STATES
A CLOUD OF SMOKE, STATIONARY OVERHEAD AND EXPANDING ABOUT
2330Z. PART FOURTEEN: REPORTED THROUGH CAA THAT NINE PEOPLE ON
GROUND AT WHITEHORSE HEARD EXPLOSION AND SOME SAW RED FLASH
ONE SECOND TO NW AT ABOUT 2330Z AND CREW OF COMET AIRCRAFT
WHICH LANDED ABOUT 2330Z AT WHITEHORSE REPORTED SEEING (RED)
FLASH AND HEARING EXPLOSION. PART FIFTEEN: DR. [REDACTED]
AND DR. J. [REDACTED] OF GEOPHYSICAL INSTITUTE, UNIVERSITY OF
ALASKA, PRESENT THROUGHOUT COLLECTION OF INFORMATION AND
PARTICIPATED IN COLLECTION AND ANALYSIS BY 11 ADIV, LADD AFB
INTELLIGENCE PERSONNEL. FOLLOWING SUBMITTED AS ASSESSMENT BY
11TH ADIV AND GEOPHYSICAL INSTITUTE: 1. BELIEVED TO BE A
OBJECT ENTERING ATMOSPHERE AT HIGH ANGLE APPROXIMATELY TEN TO
FIFTEEN DEGREES FROM VERTICAL, TRAVELING GENERALLY N. TO S.

21/1213Z WAR RJKDAG

1. Very bright glowing light - described as
varying from

~~Very bright glowing light - described as~~

[REDACTED]

174E4
8-4AZ
4-4XZC

PARAGRAPH NOT REQUIRED BY GPO TO
CARRY ON ENCLOSURE. THE GPO WILL REMOVE
ALL INTERNAL DIVISIONS OF THE GROUP
FROM THE ENCLOSURE.

174E4
8-4AZ
4-4XZC

174E4
8-4AZ
4-4XZC

SECTION TWO OF TWO.
THIS BASED ON VERY SHORT PERIODS OF OBSERVATION NOT EXCEEDING
SECONDS WHICH PUT THE OBJECT IN SPEED RANGE OF
20 MILES PER SECOND, RATHER THAN PROBABLE SPEED RANGE
7 MILES PER SECOND, WHICH WOULD APPLY IN THE CASE OF A RE-
ENTRY VEHICLE OR OTHER OBJECT FIRED FROM EARTH. C. BELIEVED
TO HAVE EXPLODED IN AIR. PROBABLE ALTITUDE APPROXIMATELY 12
MILES. SEISMIC LABORATORY OF UNIVERSITY OF ALASKA DID NOT
RECORD ANY TREMORS AT OR ABOUT TIME OF SPLITTING; HOWEVER,
THE MOST SENSITIVE OF ITS TWO SEISMOGRAPHS WAS OPERATIVE
AT THE TIME. OBJECT BELIEVED TO HAVE EXPLODED IN AREA OF
55°N, 155°W. WHISTLING NOISES COULD HAVE COME FROM FRAGMENTS,
OR FROM SPLITTING AND LOCATION, EXPLOSION COULD HAVE
BEEN BEFORE AND EARLIER WHISTLING SOUND WOULD BEACH

END TWO BUREAS 30

REMARKS. PART SIXTEEN: COMMENTS OF OFFICERS WHO PREPARED
INITIAL REPORT, MAJOR MILTON MARRELL, CHIEF INTELLIGENCE
DIVISION, 11TH ALIV AND CAPTAIN JAMES SMITH, ASS'T. CHIEF,
INTELLIGENCE DIVISION, 11TH ALIV. 1. POSSIBILITY OF OBJECT
BEING A SATELLITE OR SPACE VEHICLE NOT CONSIDERED
SERIOUSLY BY GEOGRAPHICAL INSTITUTE REPRESENTATIVES. 2. MR.
AT CANTON, OHIO, STATED SIGHTING HAD BEEN REPORTED THROUGH
OF GPO IN MONTIC. HE WAS REQUESTED TO INFORM CANADIAN
AGENCIES THAT INFORMATION INTO CANADA HAD ORIGINATED WITH
11TH ALIV, L-10 673, ALASKA, AND ANY FURTHER INFORMATION
WOULD BE FURNISHED TO THEM. 3. IT IS NOTED THAT
WAS OBSERVED IN EXCELLENT VISIBILITY THROUGHOUT THE
OBSERVATION. WAS IN FULLY SOLAR. SUN IN HIGH SKY IN
WESTERN LATITUDE. THIS TIME OF YEAR AT 1227 LOCAL TIME.

END TWO BUREAS 30

4-1

1 AUG 55 09 47

7

INSTR

SQH007SQG109 YDB103 XYB178 QXB182 QDB049 KQC001SXA071

RR RJEDSQ RJEDDN RJEPHQ

ZFD RJKDEX

KQB084 ACB002

RR RJEDSQ RJEDDN RJEPHQ

DE RJKDAG 1

R 312345Z

FM COMDR AAC

TO RJEDSQ/COMDR ATIC

INFO RJEDDN/COMDR ADC

RJEPHQ/COFS USAF

ZEN/CINCAL

RJKDLA/COMDR 11TH ADIV

BT

UNCLASSIFIED FROM INT-1 50079.

USAF ATTN: ACS/58 AND ISO. REFERENCE MESSAGE THIS HEADQUARTERS
53030, 29 MARCH, PART FOUR ON METEOR-LIKE OBJECT. CAPTAIN [REDACTED],
ALASKA AIR LINES PILOT, HAS RETRACTED HIS STATEMENT THAT OBJECT
HAD SHORT STUBBY WINGS. CHANGE OF OPINION MAY BE PARTIALLY DUE TO
CONVERSATIONS CAPTAIN [REDACTED] HAD WITH SEVERAL OTHER PILOTS WHO
ALSO OBSERVED METEOR-LIKE OBJECT. PRIOR TO RETRACTION HE HAD
SLIGHTLY AMPLIFIED HIS ORIGINAL STATEMENT AS FOLLOWS "FIRST THROUGH
OBJECT WAS A PARACHUTE FLARE WHICH FAILED TO OPEN. SECTION THOUGHT
APPEARED LIKE F-104 WING."

BT

01/0011Z APR RJKDAG

Note!